

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

**(19) World Intellectual Property Organization  
International Bureau**



(43) International Publication Date  
24 February 2005 (24.02.2005)

PCT

(10) International Publication Number  
**WO 2005/016138 A1**

(51) International Patent Classification<sup>7</sup>: A61B 5/00

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number: PCT/KR2004/002044

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(22) International Filing Date: 13 August 2004 (13.08.2004)

## English

**(26) Publication Language:** English

**Published:**

— *with international search report*

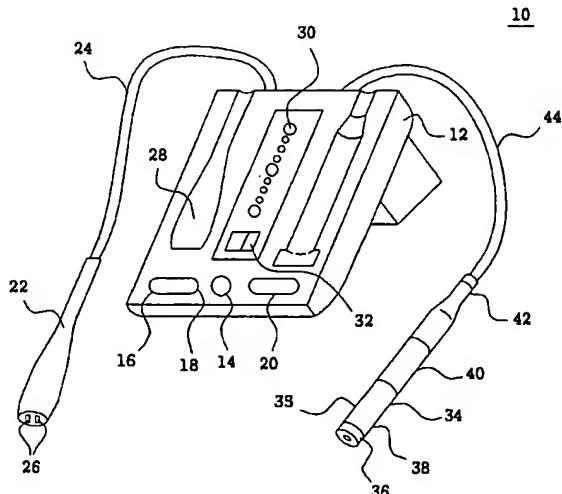
**(30) Priority Data:** 10/641,239 14 August 2003 (14.08.2003) US

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(74) Agent: KIM, Je-Hyun; 23th Floor, ASEM Tower, 159-1 Samsung-dong, Gangnam-gu, Seoul 135-798 (KR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

**(54) Title: A SKIN RESURFACING DEVICE**



**(57) Abstract:** A skin resurfacing device for peeling the outermost layer of the skin for renewing the skin surface and repairing skin damage including a housing, a skin sensor, and a skin treater. The skin treater consists of an abrasive tip, a first end, a transparent portion, a first filter, and a second end, all of which are detachable and replaceable. The skin treater is connected to a vacuum source by a tubular hose. The vacuum provides both closeness of contact between the abrasive tip and the user's skin and the suctioning of skin debris peeled off. The skin treater, especially the abrasive tip is made with common material and mass production process so that they are disposable and economic.